

SELECT PESTICIDES REGISTERED FOR SEED TREATMENT OF FIELD CORN AND ASSOCIATED HUMAN HEALTH BENCHM

Type	FRAC ² /IRAC ³	Active Ingredient	Previously Analyzed? ⁴	Previously Detected? ⁴	cRfD ⁵ (mg/kg-day)	cHHBP ⁶ (µg/L)
Nematicide	IRAC 6	Abamectin	no	n/a	0.0004	3
Insecticide	IRAC 1B	Chlorpyrifos	✓	no (only lagoons & wet cake were tested)	0.00033	1.8
	IRAC 4A	Clothianidin	✓	✓	0.098	630
		Imidacloprid	✓	✓	0.057	360
		Thiamethoxam	✓	✓	0.012	77
	IRAC 28	Chlorantraniliprole	✓	✓	1.58	10,100
		Cyantraniliprole	no	n/a	0.01	60
Fungicide	FRAC 1	Carbendazim (Thiophanate-methyl)	✓	✓	0.025	160
		Thiabendazole	✓	✓	0.033	210
	FRAC 3	Desthioprothioconazole (Prothioconazole degradate)	✓	✓	n/a	n/a
		Difenoconazole	✓	✓	0.01	60
		Ipconazole	✓	✓	0.015	96
		Metconazole	✓	✓	0.04	300
		Propiconazole	✓	✓	0.1	600
		Prothioconazole	✓	✓	0.01	60
		Tebuconazole	✓	✓	0.029	190
	FRAC 4	Metalaxyl (equal R and S enantiomers) or Mefenoxam (R enantiomer)	✓	✓	0.0741	474
	FRAC 7	Carboxin	no	n/a	n/a	n/a
		Penflufen	no	n/a	0.38	2,400
		Sedaxane	✓	✓	0.11	700
	FRAC 11	Azoxystrobin	✓	✓	0.18	1,200
		Fluoxastrobin	✓	✓	0.015	96
		Picoxystrobin	✓	✓	n/a	n/a
		Pyraclostrobin	✓	✓	0.034	220
		Trifloxystrobin	✓	✓	0.038	240
	FRAC 12	Fludioxonil	no	n/a	0.03	200
	FRAC 14	Tolclofos-methyl	no	n/a	n/a	n/a
	FRAC 22	Ethaboxam	✓	✓	0.055	350
		Mancozeb	no	n/a	0.016	88

ARKS.¹[illegible]

	FRAC M 03	Thiram	no	n/a	0.015	96
	FRAC M 04	Captan	no	n/a	0.13	830

¹ Disclaimer - this table is *not* a comprehensive list of all pesticides registered for seed treatment of field corn since 2015.

² FRAC = Fungicide Resistance Action Committee Mode of Action classification - <https://www.frac.info/>

³ IRAC = Insecticide Resistance Action Committee Mode of Action classification - <https://irac-online.org/modes-of-action/>

⁴ Matrices analyzed include groundwater, surface water, wet cake, corn seed, soil, nectar, honey, pollen, and/or other matrices.

⁵ cRFD = Chronic Reference Dose - Only provided if listed in <https://www.epa.gov/pesticides/updated-list-human-health-chronic-reference-dose>

⁶ cHHBP = Chronic Human Health Benchmarks for Pesticides - Only provided if listed in: <https://www.epa.gov/pesticides/chronic-human-health-benchmarks-for-pesticides>

Gray indicates a compound is registered for seed treatment of corn, but no samples have been analyzed.

Bayer, Nu Farm, UPL NA
Albaugh, Drexel

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Comment:

cRfD and cHHBP for chlorpyrifos methyl (not chlorpyrifos ethyl)